



## TRANSMITTAL FORM

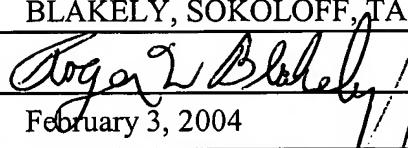
(to be used for all correspondence after initial filing)

|  |    |                        |                       |
|--|----|------------------------|-----------------------|
|  |    | Application No.        | 10/672,452            |
|  |    | Filing Date            | September 26, 2003    |
|  |    | First Named Inventor   | Alexander O. Goushcha |
|  |    | Art Unit               |                       |
|  |    | Examiner Name          |                       |
| Total Number of Pages in This Submission | 26 | Attorney Docket Number | 2712P010              |

### ENCLOSURES (check all that apply)

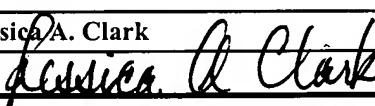
|   |   |  |   |
|---|---|--|---|
| <input checked="" type="checkbox"/> Fee Transmittal Form<br><br><input type="checkbox"/> Fee Attached<br><br><input type="checkbox"/> Amendment / Response<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><br><input type="checkbox"/> Extension of Time Request<br><br><input type="checkbox"/> Express Abandonment Request<br><br><input checked="" type="checkbox"/> Information Disclosure Statement<br><input checked="" type="checkbox"/> PTO/SB/08<br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><br><input type="checkbox"/> Response to Missing Parts/ Incomplete Application<br><input type="checkbox"/> Basic Filing Fee<br><input type="checkbox"/> Declaration/POA<br><br><input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><br><input type="checkbox"/> Licensing-related Papers<br><br><input type="checkbox"/> Petition<br><br><input type="checkbox"/> Petition to Convert a Provisional Application<br><br><input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address<br><br><input type="checkbox"/> Terminal Disclaimer<br><br><input type="checkbox"/> Request for Refund<br><br><input type="checkbox"/> CD, Number of CD(s) | <input type="checkbox"/> After Allowance Communication to Group<br><br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><br><input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)<br><br><input type="checkbox"/> Proprietary Information<br><br><input type="checkbox"/> Status Letter<br><br><input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):<br><br><div style="border: 1px solid black; height: 40px; width: 100%;"></div> |   |
|   |   |  | <input type="checkbox"/> Drawing(s)   |
|   |   |  | <input type="checkbox"/> Licensing-related Papers                                       |
|   |   |  | <input type="checkbox"/> Petition   |
|   |   |  | <input type="checkbox"/> Petition to Convert a Provisional Application                  |
|   |   |  | <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address |
|   |   |  | <input type="checkbox"/> Terminal Disclaimer  |
|   |   |  | <input type="checkbox"/> Request for Refund   |
|   |   |  | <input type="checkbox"/> CD, Number of CD(s)  |
|   |   |  | Remarks   |

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

|                         |   |
|-------------------------|---|
| Firm or Individual name | Roger W. Blakely, Jr., Reg. No. 25,831<br><br><b>BLAKELY, SOKOLOFF, TAYLOR &amp; ZAFMAN LLP</b> |
| Signature               |              |
| Date                    | February 3, 2004  |

### CERTIFICATE OF MAILING/TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

|                       |   |      |                  |
|-----------------------|---|------|------------------|
| Typed or printed name | Jessica A. Clark  | Date | February 3, 2004 |
| Signature             |  |      |                  |



# FEET TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27.

**TOTAL AMOUNT OF PAYMENT** (\$)

Complete if Known

|                      |                       |
|----------------------|-----------------------|
| Application Number   | 10/672,452            |
| Filing Date          | September 26, 2003    |
| First Named Inventor | Alexander O. Goushcha |
| Examiner Name        |                       |
| Group/Art Unit       |                       |
| Attorney Docket No.  | 2712P010              |

## METHOD OF PAYMENT (check all that apply)

Check  Credit card  Money Order  Other  None  
 Deposit Account

Deposit Account Number 02-2666

Deposit Account Name Blakely, Sokoloff, Taylor & Zafman LLP

The Commissioner is authorized to: (check all that apply)

Charge fee(s) indicated below  Credit any overpayments  
 Charge any additional fee(s) required under 37 CFR §§ 1.16, 1.17, 1.18 and 1.20.  
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account

## FEE CALCULATION

### 1. BASIC FILING FEE

| Large Entity |     | Small Entity |     | Fee Paid               |
|--------------|-----|--------------|-----|------------------------|
| Fee Code     | \$  | Fee Code     | \$  |                        |
| 1001         | 770 | 2001         | 385 | Utility filing fee     |
| 1002         | 340 | 2002         | 170 | Design filing fee      |
| 1003         | 530 | 2003         | 265 | Plant filing fee       |
| 1004         | 770 | 2004         | 385 | Reissue filing fee     |
| 1005         | 160 | 2005         | 80  | Provisional filing fee |
| SUBTOTAL (1) |     | (\$)         |     |                        |

### 2. EXTRA CLAIM FEES

| Total Claims | Independent Claims | Extra Claims | Fee from below   | Fee Paid |
|--------------|--------------------|--------------|--|----------|
|              |                    | 20**         | = <input type="text"/> X <input type="text"/> = <input type="text"/> |          |
|              |                    | 3            | = <input type="text"/> X <input type="text"/> = <input type="text"/> |          |

| Large Entity |     | Small Entity |     | Fee Description   |
|--------------|-----|--------------|-----|---|
| Fee Code     | \$  | Fee Code     | \$  |   |
| 1202         | 18  | 2202         | 9   | Claims in excess of 20                                    |
| 1201         | 86  | 2201         | 43  | Independent claims in excess of 3                         |
| 1203         | 290 | 2203         | 145 | Multiple Dependent claim, if not paid                     |
| 1204         | 86  | 2204         | 43  | **Reissue independent claims over original patent         |
| 1205         | 18  | 2205         | 9   | **Reissue claims in excess of 20 and over original patent |
| SUBTOTAL (2) |     | (\$)         |     |   |

\*\*or number previously paid, if greater. For Reissues, see below

## 3. ADDITIONAL FEES

| Large Entity        | Small Entity | Fee Description  | Fee Paid |
|---------------------|--------------|--|----------|
| Fee Code            | Fee Code     | Fee Description  |          |
| 1051                | 130          | 2051 65 Surcharge - late filing fee or oath  |          |
| 1052                | 50           | 2052 25 Surcharge - late provisional filing fee or cover sheet                     |          |
| 2053                | 130          | 2053 130 Non-English specification   |          |
| 1812                | 2,520        | 1812 2,520 For filing a request for <i>ex parte</i> reexamination                  |          |
| 1804                | 920*         | 1804 920* Requesting publication of SIR prior to Examiner action                   |          |
| 1805                | 1,840*       | 1805 1,840* Requesting publication of SIR after Examiner action                    |          |
| 1251                | 110          | 2251 55 Extension for reply within first month                                     |          |
| 1252                | 420          | 2252 210 Extension for reply within second month                                   |          |
| 1253                | 950          | 2253 475 Extension for reply within third month                                    |          |
| 1254                | 1,480        | 2254 740 Extension for reply within fourth month                                   |          |
| 1255                | 1,210        | 2255 605 Extension for reply within fifth month                                    |          |
| 1404                | 330          | 2401 165 Notice of Appeal  |          |
| 1402                | 330          | 2402 165 Filing a brief in support of an appeal                                    |          |
| 1403                | 290          | 2403 145 Request for oral hearing  |          |
| 1451                | 1,510        | 2451 1,510 Petition to institute a public use proceeding                           |          |
| 1452                | 110          | 2452 55 Petition to revive - unavoidable   |          |
| 1453                | 1,330        | 2453 665 Petition to revive - unintentional  |          |
| 1501                | 1,330        | 2501 665 Utility issue fee (or reissue)  |          |
| 1502                | 480          | 2502 240 Design issue fee  |          |
| 1503                | 640          | 2503 320 Plant issue fee   |          |
| 1460                | 130          | 2460 130 Petitions to the Commissioner   |          |
| 1807                | 50           | 1807 50 Processing fee under 37 CFR 1.17(q)  |          |
| 1806                | 180          | 1806 180 Submission of Information Disclosure Stmt                                 |          |
| 8021                | 40           | 8021 40 Recording each patent assignment per property (times number of properties) |          |
| 1809                | 770          | 1809 385 Filing a submission after final rejection (37 CFR § 1.129(a))             |          |
| 1810                | 770          | 2810 385 For each additional invention to be examined (37 CFR § 1.129(b))          |          |
| 1801                | 770          | 2801 385 Request for Continued Examination (RCE)                                   |          |
| 1802                | 900          | 1802 900 Request for expedited examination of a design application                 |          |
| Other fee (specify) |              |  |          |
| SUBTOTAL (2)        |              | (\$)   |          |

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$)

Complete (if applicable)

|                   |                       |                                   |        |           |                |
|-------------------|-----------------------|-----------------------------------|--------|-----------|----------------|
| Name (Print/Type) | Roger W. Blakely, Jr. | Registration No. (Attorney/Agent) | 25,831 | Telephone | (714) 557-3800 |
| Signature         |                       |                                   |        | Date      | 02/03/04       |

Based on PTO/SB/17 (08-03) as modified by Blakely, Sokoloff, Taylor & Zafman (w) 08/11/2003.  
SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:

ALEXANDER O. GOUSHCHA, ET AL.

Application No.: 10/672,452

Filed: September 26, 2003

For: **FAST SILICON PHOTODIODES WITH  
HIGH BACK SURFACE REFLECTANCE  
IN A WAVELENGTH RANGE CLOSE  
TO THE BANDGAP**

Art Group:

Examiner:

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure, enclosed is a copy of Information Disclosure Statement by Applicant (form PTO/SB/08), which is being submitted before the mailing of a first Office Action. It is respectfully requested that the cited references be considered and that the enclosed copy of PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s). Copies of the references cited on PTO/SB/08 are enclosed herewith.

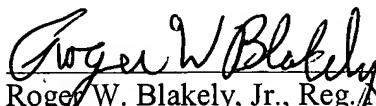
The submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made in the subject application and is not to be construed as an admission that the information cited in this statement is material to patentability.

Please charge any fees due to Deposit Account 02-2666. A duplicate copy of the Fee Transmittal (PTO/SB/17) is enclosed for this purpose.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Date: February 03, 2004

  
Roger W. Blakely, Jr., Reg. No 25,831

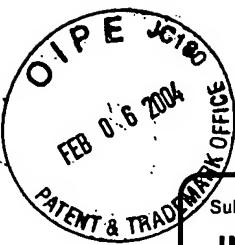
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Jessica A. Clark

02-03-04

*Date*



Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet

1

of

1

### Complete if Known

|                        |                       |
|------------------------|-----------------------|
| Application Number     | 10/672,452            |
| Filing Date            | September 26, 2003    |
| First Named Inventor   | Alexander O. Goushcha |
| Art Unit               |                       |
| Examiner Name          |                       |
| Attorney Docket Number | 2712P010              |

### NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No.' | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|--------------------|-----------|---|----------------|
|                    |           | GREEN, MARTIN A. et al., "Technology and Economics of Three Advanced Silicon Solar Cells", Progress in Photovoltaics: Research and Applications, January 22, 1998, Vol. 6, Pgs. 169-180   |                |
|                    |           | HICKS, CHRIS et al. "Quantum efficiency of silicon photodiodes in the near-infrared spectral range", Applied Optics, August 1, 2003, Vol. 42, No. 22, Pgs 4415-4422   |                |
|                    |           |   |                |
|                    |           |   |                |
|                    |           |   |                |
|                    |           |   |                |
|                    |           |   |                |
|                    |           |   |                |

Examiner  
Signature

Date  
Considered

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

<sup>1</sup>Applicant's unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/08B (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wlr) 08/11/2003.  
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